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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7501 (1974): Speculum, Rectal, Kelly's Pattern [MHD 1:
Surgical Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard
**SPECIFICATION FOR
SPECULUM, RECTAL, KELLY'S PATTERN**

1. Scope — Specifies dimensional and other requirements of Kelly's pattern rectal speculum.

2. Shape and Dimensions — As shown in Fig. 1.

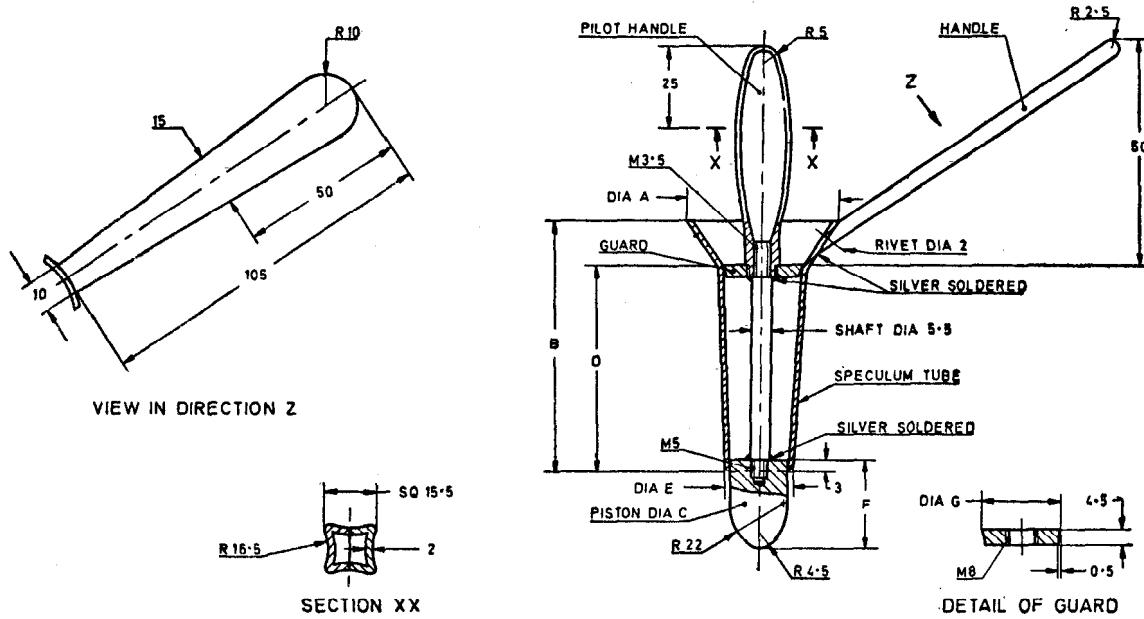


FIG. 1 SPECULUM, RECTAL, KELLY'S PATTERN

3. Materials

3.1 The tube, handle of speculum and guard shall be of stainless steel conforming to Designation 20Cr13, 30Cr13, 04Cr18Ni10 or 07Cr18Ni9 of IS : 6911-1972 'Specification for stainless steel plate, sheet and strip'.

3.2 The piston and shaft of the pilot shall be of stainless steel conforming to Designation 20Cr13 or 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

3.3 The pilot handle shall be of brass conforming to Grade 3 of IS : 292-1961 'Specification for brass ingots and castings (revised)' or nickel silver.

4. Workmanship and Finish

4.1 The surfaces of the speculum shall be finished smooth and free from burrs, pits, cracks, seams and other surface defects.

4.2 The edges of the distal opening of the tube shall not be turned inwards or outwards. The handle shall be securely riveted to the speculum tube and silver soldered.

4.3 The pilot handle, pilot guard and the piston shall be screwed to the shaft and silver soldered.

4.4 The silver soldering shall be sound and neat and shall be finished smooth.

4.5 The pilot piston shall fit the distal opening of the speculum tube in such a way that the external surface of the pilot piston shall be almost flush with the external surface of the distal end of the speculum tube.

4.6 The pilot guard shall be snug fit into the proximal end of the speculum tube.

4.7 The pilot handle shall be plated chromium over nickel. The plating shall conform to Service Grade No. 2 of IS : 4827-1968 ' Specification for electroplated coatings of nickel and chromium on copper and copper alloys '.

4.8 The stainless steel parts shall be polished bright and passivated.

5. Tests

5.1 Rigidity Test

5.1.1 Apply a compressive force of 150 N to the speculum tube in such a manner that the force acts on opposite points about the middle of the tube. The maximum force of 150 N shall be gradually attained and shall act for two minutes. On removing the force the tube shall show no sign of damage.

5.1.2 Grip the free end of handle of the speculum tube in such a manner that the speculum tube lies vertically. Apply gradually a load of 50 N by suspending from the speculum tube. On removing the load the speculum and junction of the handle with it shall not show any sign of damage.

5.2 Corrosion Resistance Test for Stainless Steel Parts — Scrub the sample with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool. Composition of the solution shall be as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4·0 g
Sulphuric acid (H_2SO_4) (sp gr 1·84)	10·0 g
Distilled water [see IS : 1070-1960 Specification for water, distilled quality (revised)]	90·0 ml

No red stains or spots on the sample shall be allowed but dulling of the polished surface may be permitted.

6. Marking — Each speculum shall be marked with the manufacturer's name, initials or recognized trade-mark.

6.1 ISI Certification Marking — Details available with the Indian Standards Institution.

7. Packing — As agreed to between the purchaser and the supplier.